PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: SOEI Patent and Law Firm Attn. HASEGAWA, Yoshiki Okura-Honkan, 6-12 Ginza 2-chome, Chou-ku JP - Tokoy 104-0061 JAPAN NOV15	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 11/11/1999
Applicant's or agent's file reference 2712.AKT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/IB 99/01140	International filing date (day/month/year) 20/05/1999
Applicant APPLIED KOMATSU TECHNOLOGY, INC.	
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai When? The time limit for filing such amendments is norm International Search Report; however, for more of Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.5	nally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet.
2. The applicant is hereby notified that no International Sear Article 17(2)(a) to that effect is transmitted herewith.	ch Report will be established and that the declaration under
the protect together with the decision thereon has he	tional fee(s) under Rule 40.2, the applicant is notified that: sen transmitted to the International Bureau together with the rotest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the a	pplicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following Shortly after 18 months from the priority date, the international If the applicant wishes to avoid or postpone publication, a not priority claim, must reach the International Bureau as provide completion of the technical preparations for international publication of the technical preparations for international publication of the priority date, a demand for international publication of the entry into the national phase until 30. Within 20 months from the priority date, the applicant must pe before all designated Offices which have not been elected in	application will be published by the International Bureau. iice of withdrawal of the international application, or of the ed in Rules 90bis.1 and 90bis.3, respectively, before the lication. Identify a second of the priority date (in some Offices even later). Inform the prescribed acts for entry into the national phase of the demand or in a later election within 19 months from the
priority date or could not be elected because they are not bo Name and mailing address of the International Searching Authority	

Marjory Sastropawiro

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filled

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2712.AKT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/IB 99/01140	20/05/1999	20/05/1998		
Applicant				
APPLIED KOMATSU TECHNOLOG	Y, INC.			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching A ansmitted to the International Bureau.	authority and is transmitted to the applicant		
This International Search Report consists It is also accompanied by	of a total of 3 sheets. a copy of each prior art document cited in t	his report.		
Basis of the report				
a. With regard to the language, the language in which it was filed, un	international search was carried out on the less otherwise indicated under this item.	basis of the international application in the		
Authority (Rule 23.1(b)).		of the international application furnished to this		
b. With regard to any nucleotide ar was carried out on the basis of the	nd/or amino acid sequence disclosed in the sequence listing:	e international application, the international search		
	onal application in written form.			
filed together with the inte	emational application in computer readable	form.		
furnished subsequently to	o this Authority in written form.			
	o this Authority in computer readble form.	·		
international application a	bsequently furnished written sequence listings as filed has been furnished.			
the statement that the inf furnished	ormation recorded in computer readable for	m is identical to the written sequence listing has been		
2. Certain claims were for	und unsearchable (See Box I).	•		
3. Unity of invention is lac	cking (see Box II).			
4. With regard to the title,				
X the text is approved as s	ubmitted by the applicant.			
the text has been establi	shed by this Authority to read as follows:			
	•			
5. With regard to the abstract,				
- CC	ubmitted by the applicant.			
the text has been establi		hority as it appears in Box III. The applicant may, report, submit comments to this Authority.		
6. The figure of the drawings to be put	blished with the abstract is Figure No.	2		
as suggested by the app	licant.	None of the figures.		
because the applicant fa	illed to suggest a figure.			
because this figure bette	er characterizes the invention.			

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB 99/01140

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H01L21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevan to same to
Х	WO 92 17621 A (CONNER PERIPHERALS INC) 15 October 1992 (1992-10-15) page 21, line 1 -page 27, line 20; claims 1-3; figures 1,2	13,15
Α	page 13, line 8 -page 14, line 8	1,4-6, 19,32, 35,52, 61,69
Α.	page 50, line 1 -page 55, line 2; figures 15-21	
A	WO 92 21144 A (MATERIALS RESEARCH CORP) 26 November 1992 (1992-11-26)	1,2,5, 13,19, 32,48, 52,61, 64,69
	page 17, line 4 -page 24, line 7; claims 1,3,7; figures 1-4 	
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled
other means "P" document published prior to the international filing date but later than the priority date daimed	in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of malling of the international search report
1 November 1999	11/11/1999
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Visentin, A

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 99/01140

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	 Palayant to claim No
Category °	Citation of document, with indication, where appropriate, of the relevant passages	 Relevant to claim No.
A	US 5 609 689 A (KATO SUSUMU ET AL) 11 March 1997 (1997-03-11)	1,2,7, 11,13, 19,32, 35,36, 48,49, 61,65, 69,70
	the whole document	
A	WO 94 14185 A (MATERIALS RESEARCH CORP) 23 June 1994 (1994-06-23) page 15, line 3 -page 19, line 11; claims	1,2,7, 11,13, 19,32, 35,36, 48,49, 52,61, 69,70
	1,2; figures 1-3	
A	EP 0 608 620 A (APPLIED MATERIALS INC) 3 August 1994 (1994-08-03)	
Α	US 5 474 410 A (OZAWA MASAHITO ET AL) 12 December 1995 (1995-12-12)	
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INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/IB 99/01140

	Patent document cited in search report	1	Publication date		Patent family member(s)	Publication date	
	WO 9217621	Α	15-10-1992	EP JP US US	0577766 A 6510565 T 5814196 A 5683561 A	12-01-1994 24-11-1994 29-09-1998 04-11-1997	
	WO 9221144	A	26-11-1992	US AU CA CA EP JP JP JP VO US	5259881 A 1270092 A 2155992 A 2102197 A 2102795 A 0584077 A 0584278 A 2664288 B 6507970 T 2729106 B 6507524 T 9221147 A 5380682 A 5352248 A	02-03-1994 15-10-1997 08-09-1994 18-03-1998 25-08-1994 26-11-1992 10-01-1995	/
	US 5609689	Α	11-03-1997	JP	8339948 A	24-12-1996	
	WO 9414185	Α	23-06-1994	US AU CA EP JP SG	5516732 A 5739194 A 2150473 A 0672297 A 8504301 T 47805 A	04-07-1994 23-06-1994 20-09-1995 07-05-1996	
	EP 0608620	Α	03-08-1994	DE DE ES JP JP US	69304038 D 69304038 T 2090893 T 2575285 E 6244124 A 5512320 A	19-12-1996 16-10-1996 22-01-1997 02-09-1994	
	US 5474410	A	12-12-1995	JP JP	6268041 A 6314731 A		
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